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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/560,718

12/15/2005

Gerard De Haan

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06/09/2009

PHILIPS INTELLECTUAL PROPERTY & STANDARDS

P.O. BOX 3001

BRIARCLIFF MANOR, NY 10510

EXAMINER

TEKLE, DANIEL T

ART UNIT

PAPER NUMBER

2621

MAIL DATE

DELIVERY MODE

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PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/560,718	<b>Applicant(s)</b> DE HAAN ET AL.	
	<b>Examiner</b> DANIEL TEKLE	<b>Art Unit</b> 2621	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 15 December 2005.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 15 December 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)            | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date. _____                                      |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim 1-10 rejected under 35 U.S.C. 102(e) as being anticipated by Asahi et al.  
(EP 1, 355,501).

**Regarding Claim 1:** Asahi et al. discloses a luminance and color separation filter unit (300, 400, 500, 600, 700) for extracting a luminance signal (Y) and two color signals (U, V) from a composite color television signal (CVBS), comprising a chrominance (C) signal being modulated on a sub-carrier which is located in the high-frequency part of the frequency spectrum of the luminance signal (Y), characterized in that the filter unit (300, 400, 500, 600, 700) is arranged to compute at least one value of a set of values comprising an output luminance value ( $Y([\text{right arrow over } (x)],n)$ ) of a particular output pixel ( $[\text{right arrow over } (x)]$ ), a first color value ( $U([\text{right arrow over } (x)], n)$ ) of the particular output pixel ( $[\text{right arrow over } (x)]$ ) and a second color value ( $V([\text{right arrow over } (x)],n)$ ) of the particular output pixel ( $[\text{right arrow over } (x)]$ ) on basis of a first (F.sub.1), a second (F.sub.2) and a third (F.sub.3) sample derived from the composite

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color television signal (CVBS), where the first (F.sub.1), the second (F.sub.2) and the third (F.sub.3) sample have mutually different sub-carrier phases **(paragraph 0023)**.

**Regarding Claim 2:** Asahi et al. discloses a luminance and color separation filter unit (400) as claimed in claim 1, characterized in that the filter unit (400) comprises a sample acquisition unit (302) to acquire the first (F.sub.1), the second (F.sub.2) and the third (F.sub.3) sample from three portions of the composite color television signal, the three portions corresponding to three successive images, the sample acquisition unit (302) being controlled by a motion estimator (402) for computing motion vectors, representing motion between parts of the three successive images **(paragraph 0031)**.

**Regarding Claim 3:** Asahi et al. discloses a luminance and color separation filter unit (500) as claimed in claim 1, characterized in that the filter unit (500) comprises a sample acquisition unit (302) to acquire the first (F.sub.1), the second (F.sub.2) and the third (F.sub.3) sample from three portions of the composite color television signal, the three portions corresponding to a single image, the sample acquisition unit (302) being controlled by means for estimating an edge orientation (502) in the single image **(paragraph 0031)**.

**Regarding Claim 3:** Asahi et al. discloses a luminance and color separation filter unit (600) as claimed in claim 1, characterized in comprising: a first low pass filter (602) for filtering a first (U) one of the two color signals; a second low pass filter (604) for filtering a second (V) one of the two color signals; a modulator (606) connected to the first low pass filter (602) and the second low pass filter (604), for re-modulating the filtered first

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(U.sub.LPF) one of the two color signals and the filtered second (V.sub.LPF) one of the two color signals; and a subtraction unit (608) for subtracting the output of the modulator (606) from the composite color television signal (CVBS) (**paragraph 0036**).

**Regarding Claim 5:** Asahi et al. discloses a luminance and color separation filter unit (700) as claimed in claim 1, characterized in comprising a spatial up-conversion unit (702) for computing the first (F.sub.1), the second (F.sub.2) and the third (F.sub.3) sample on basis of interpolation of samples extracted from the composite color television signal (**paragraph 0036**).

**Regarding Claim 6:** Claim 6 reject for the same subject matter as claim 1 discussed above.

**Regarding Claim 7:** Asahi et al. discloses a image processing apparatus (800) as claimed in claim 6, further comprising a display device (804) for displaying images being represented by the luminance signal and the two color signals (**paragraph 0036**).

**Regarding Claim 8:** Asahi et al. discloses an image processing apparatus (800) as claimed in claim 7, characterized in that it is a TV (**paragraph 0036**).

**Regarding Claim 9 and 10:** Claim 9 and 10 reject for the same subject matter as claim 1 discussed above.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DANIEL TEKLE whose telephone number is (571)270-

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1117. The examiner can normally be reached on 7:30am to 5:00pm M-R and 7:30-4:00  
Every other Friday..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha D. Banks-Harold can be reached on 571-272-7905. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Marsha D. Banks-Harold/  
Supervisory Patent Examiner, Art Unit 2621

/Daniel Tekle/  
Examiner, Art Unit 2621